CLAIM AMENDMENTS

Please cancel claims 2, 3 and 12.

Please amend claims 1, 4, 8, 9 and 10 as set out below:

- 1 (currently amended). A combiner for use in a spatial diversity radio receiver which receives multiple data signals through spaced apart antennae, said combiner comprising, for two received data signals:
- (a) means for receiving two strength-indicative signals, each said strength-indicative signal being indicative of the <u>a</u> strength of one of said two received data signals, and two demodulated data signals for each said two received data signals;
- (b) means for generating control signals responsive to said strength-indicative signals; and,
- (c) means for combining <u>said demodulated data signals</u> in <u>specific linear</u> proportions determined by said control signals those of <u>said demodulated data signals</u> which are both where <u>said demodulated data signals</u> are above a predetermined combiner threshold and differ in strength by less than a predetermined margin, to provide a combined output data signal, <u>said specific proportions being:</u>
 - where a difference between strengths of said demodulated data signals is more than a predetermined margin:
 100% of only a strongest of said demodulated data signals; and,
 - (ii) where said difference between strengths of said demodulated data signals is less than said predetermined margin:

 for said demodulated data signal which is a strongest of said demodulated data signals, 50% plus a second percentage corresponding to a ratio between one-half of said difference between strengths and said predetermined margin; and,

for said other demodulated data signal, 50% less said second percentage.

2 (cancelled).

3 (cancelled).

4 (currently amended). A combiner according to claim $\underline{1}$ 3, wherein said margin is between 3dB and 12 dB.

5 (original). A combiner according to claim 4, wherein said margin is 6dB.

6 (original). A combiner according to Claim 5, wherein said generating and combining means are provided by a digital signal processor.

7 (original). A combiner according to claim 6, wherein said generating means comprises means for evaluating said strength-indicative signals.

8 (currently amended). A combiner according to claim 7, wherein said evaluating means comprises means for producing a second derivative signal for each said strength-indicative signal and said control signal is signals are generated according to a predetermined combination of said strength-indicative signals and second derivative signals.

9 (currently amended, second time). A combiner according to claim 7, and further comprising DC bias compensation means for adjusting the relative DC levels of the received demodulated data signals wherein said compensation means calibrates the <u>a</u> level of a DC offset signal used for said adjusting when the strengths of said demodulated data signals are above a predetermined DC bias compensation threshold.

10 (currently amended). A combiner for use in a spatial diversity radio receiver which receives multiple data signals through spaced apart antennae, said combiner comprising, for two received data signals:

- (a) a receiving component configured for receiving strength-indicative signals, each of two said strength-indicative signal being indicative of the a strength of one of said two received data signals, and a demodulated data signals signal for each said two received data signals;
- (b) a control signal generating component configured for generating control signals responsive to said strength-indicative signals; and,
- (c) a combining component configured for combining said demodulated data signals in specific linear proportions determined by said control signals those of said demodulated data signals which are both where said demodulated data signals are above a predetermined combiner threshold and differ in strength by less than a predetermined margin, to provide a combined output data signal, said specific proportions being:
 - (i) where a difference between strengths of said demodulated
 data signals is more than a predetermined margin:
 100% of only a strongest of said demodulated data signals; and,
 - (ii) where said difference between strengths of said demodulated data signals is less than said predetermined margin:

 for said demodulated data signal which is a strongest of said demodulated data signals, 50% plus a second percentage corresponding to a ratio between one-half of said difference between strengths and said predetermined margin; and,

for said other demodulated data signal, 50% less said second percentage.

11 (original). A spatial diversity radio receiver comprising: (a) multiple receiving components for receiving data signals through antennae, each said antenna associated with one said receiving component and being spaced apart a predetermined distance, each said receiving component comprising circuitry for providing a signal indicative of the strength of said received data signal and a demodulated data signal; (b) a combiner according to claim 1; and, (c) circuitry for evaluating said combined output data signal.

12 (cancelled).

13. (original). A spatial diversity radio receiver comprising: (a) multiple receiving components for receiving data signals through antennae, each said antenna associated with one said receiving component and being spaced apart a predetermined distance, each said receiving component comprising circuitry for providing a signal indicative of the strength of said received data signal and a demodulated data signal; (b) a combiner according to claim 4; and, (c) circuitry for evaluating said combined output data signal.

14.(original) A spatial diversity radio receiver comprising: (a) multiple receiving components for receiving data signals through antennae, each said antenna associated with one said receiving component and being spaced apart a predetermined distance, each said receiving component comprising circuitry for providing a signal indicative of the strength of said received data signal and a demodulated data signal; (b) a combiner according to claim 8; and, (c) circuitry for evaluating said combined output data signal.

15. (original) A spatial diversity radio receiver comprising: (a) multiple receiving components for receiving data signals through antennae, each said antenna associated with one said receiving component and being spaced apart a predetermined distance, each said receiving component comprising circuitry for providing a signal indicative of the strength of said received data signal and a demodulated data signal; (b) a combiner

according to claim 9; and, (c) circuitry for evaluating said combined output data signal.

16. (original) A spatial diversity radio receiver comprising: (a) multiple receiving components for receiving data signals through antennae, each said antenna associated with one said receiving component and being spaced apart a predetermined distance, each said receiving component comprising circuitry for providing a signal indicative of the strength of said received data signal and a demodulated data signal; (b) a combiner according to claim 10; and, (c) circuitry for evaluating said combined output data signal.